

## INDUSTRIAL WASTEWATER

# WWTS for Drum Cleaning/Recycling

Industry:	Chemical Drum Cleaning/Recycling
System:	100 gpm Waste Water Treatment System
Location:	Pennsylvania
Goals:	Remove Oil & Grease, Suspended Solids, Colors, BOD, COD

### Project Overview:

SAMCO's state-of-the-art Waste Water Treatment System (WWTS) installed at a leading company utilizes a Reaction Tanks Unit (RTU), Dissolved Air Floatation (DAF), Sludge Handling and Filter Press to treat plastic/metal drums rinse wastewater. It is designed to achieve up to 70% recycle/reuse in a Chemical Drum Cleaning/Recycling industry.

### Critical Issues:

Complex contaminants & varied flow	Stringent discharge limits
Plant expansion w/ added water & wastewater load	Reduced O&M costs
Long equipment life & high durability	Fast-Track, concept to completion

### Vision for Solution:

- DAF in lieu of Clarifier to remove floatable suspended solids, reduce chemical feed, reduce sludge waste, achieve 70% recycle/reuse quality, and handle added expansion load
- DAF maximizes ROI with a one year payback through chemicals savings and reduced sludge
- Utilize our standard products & pre-packaged system design for fast-track turnkey project delivery and performance guarantee
- 304 SS Fabrication on Reactor Tanks & DAF for long life & high durability
- PLC controlled system for minimum operator attention
- Modular design with expansion capability for future needs

### Project Scope:

Treatability/Pilot Study	Detailed Design/Engineering
System Fabrication	Controls Integration
Field Installation	Commission/Startup
Ongoing Service	



### Equipment Description:

Equalization Tank	Influent Pumps
Chemical Feeds	304 SS Reaction Tanks Unit
304 SS DAF System	Sludge Handling/Filter Press
Recycle Pumps	PLC Controls
Platforms/Stairs	

### Special Features:

- PLC controlled system enables automation for minimal operator attention
- Process monitoring include flow, level, pressure, pH, etc
- 304 SS Fabrication for Reactor Tanks & DAF
- Modular expandability and future add-on capability for changing needs

